

AMENDMENTS TO THE CLAIMS:

Claims 1 and 2 (canceled).

Claim 3 (currently amended): A capacitance sensor having specified directionality, said capacitance sensor comprising:
detection electrodes;
an insulating material insulating said detection electrodes from each other; and
a main body containing said detection electrodes and said insulating material and having a detection surface defined by said directionality, said detection surface having unevenness; ~~with a plurality of mutually adjacent protrusions with thickness decreasing in the direction of protrusion.~~

a shield electrode inside said main body, said shield electrode being open toward said detection surface, said detection electrodes being disposed inside said shield electrode; and
a protective cover covering said shield electrode and said detection electrodes, said protective cover having a plurality of mutually adjacent protrusions with thickness decreasing in the direction of protrusion.

Claim 4 (canceled).

Claim 5 (withdrawn): A detector for detecting an object being caught by a door, said detector comprising:

detection electrodes;
an insulating material insulating said detection electrodes from each other;
a main body provided on an open end part of said door, said main body containing said detection electrodes and said insulating material;
a sensor circuit which, together with said sensor main body, forms a capacitance sensor having specified directionality;
wherein said sensor main body includes a detection surface defined by said directionality and a water-repellant finish is provided over at least a portion of said sensor main body including said detection surface.

Claim 6 (withdrawn): The detector of claim 5 further comprising:
a shield electrode inside said main body, said shield electrode being open toward said detection surface, said detection electrodes being disposed inside said shield electrode; and
a protective cover covering said shield electrode and said detection electrodes.

Claim 7 (withdrawn): A detector for detecting an object being caught by a door, said detector comprising:
detection electrodes;
an insulating material insulating said detection electrodes from each other;
a main body provided on an open end part of said door, said main body containing said detection electrodes and said insulating material; and
a sensor circuit which, together with said sensor main body, forms a capacitance sensor having specified directionality;
wherein said sensor main body includes an uneven detection surface defined by said directionality.

Claim 8 (withdrawn): The detector of claim 7 further comprising:
a shield electrode inside said main body, said shield electrode being open toward said detection surface, said detection electrodes being disposed inside said shield electrode; and
a protective cover covering said shield electrode and said detection electrodes.

Claim 9 (withdrawn): A detector for detecting an object being caught by a door, said detector comprising:
detection electrodes;
an insulating material insulating said detection electrodes from each other;
a main body provided on an open end part of said door, said main body containing said detection electrodes and said insulating material;
a sensor circuit which, together with said sensor main body, forms a capacitance sensor having specified directionality; and
means for grounding said door;
wherein said sensor main body includes a detection surface defined by said directionality and said detector further comprised means for grounding said door.

Claim 10 (withdrawn): The detector of claim 9 further comprising:
a shield electrode inside said main body, said shield electrode being open toward said
detection surface, said detection electrodes being disposed inside said shield electrode; and
a protective cover covering said shield electrode and said detection electrodes.

Claim 11 (withdrawn): A detector for detecting an object being caught by a
door, said detector comprising:
detection electrodes;
an insulating material insulating said detection electrodes from each other;
a main body provided on an open end part of said door, said main body containing
said detection electrodes and said insulating material;
a sensor circuit which, together with said sensor main body, forms a capacitance
sensor having specified directionality;
wherein said sensor main body includes a detection surface defined by said
directionality, said detection surface being at a position farther protruding from an open end
part of said door.

Claim 12 (withdrawn): The detector of claim 11 further comprising:
a shield electrode inside said main body, said shield electrode being open toward said
detection surface, said detection electrodes being disposed inside said shield electrode; and
a protective cover covering said shield electrode and said detection electrodes.

Claim 13 (new): The capacitance sensor of claim 3 wherein said mutually
adjacent protrusions are directed externally.

Claims 14 (new): The capacitance sensor of claim 13 wherein said mutually
adjacent protrusions serve to prevent water drops from becoming connected continuously.